KEYBANK NATIONAL ASSOCIATION

KeyBank - Teradata to GCP BigQuery Migration

TCS team implemented a new Extract, Transform, Load pipeline to load data from KeyBank's source systems, Integrate the layer to Google BigQuery, and Test the data with a Python based framework

The challenge

Current Data Warehousing platform is constrained and expansion is costly and time consuming Large capital investment for On-Prem Storage and Teradata license renewal Large investment and resources required to upgrade platform at regular interval Limited ability to scale On-Prem Infrastructure have limited ability to scale

The solution

TCS helped in two key areas. 1) Build a new Extract, Transform, Load pipeline to load data from KeyBank's source systems and Integration layer to Google BigQuery. Key steps were Cleansing of source data, Identification of Personal identification fields and Tokenization, Load data to Google Cloud Storage, Transform and load data to Google BigQuery 2) Data Testing using Python based framework

The results

Enablement of Google cloud BigQuery platform for the users with high availability and high computing infrastructure which is flexible, elastic and massively scalable compute capacity, that expands on demand. Enterprise Data is readily available for the Artificial Intelligence and Machine Learning capabilities

> Successful migration of 6 Teradata Marts to Google BigQuery and enabled business to perform Cloud Analytics and run machine learning and AI models for future predictions

About Keybank National Association

KeyBank, the primary subsidiary of KeyCorp, is a regional bank headquartered in Cleveland and is the only major bank based in Cleveland. Key's customer base spans retail, small business, corporate, and investment clients

Industry: Financial Services

Primary project location: United States

About Tata Consultancy Services Limited

Tata Consultancy Services is a global IT services company. It is a subsidiary of the Tata Group and operates in 149 locations across 46 countries

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